

United States Patent and Trademark Office

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/661,472	09/15/2003	Sang Scok Lee	8733.870.00-US	9241	
30827 75	590 06/30/2005		EXAMINER		
MCKENNA LONG & ALDRIDGE LLP			KOCH, GEORGE R		
1900 K STREET, NW WASHINGTON, DC 20006			ART UNIT	PAPER NUMBER	
,			1734		
				DATE MAILED: 06/30/2005	

Please find below and/or attached an Office communication concerning this application or proceeding.

- %	Application No.	Applicant(s)		
	10/661,472	LEE ET AL.		
Office Action Summary	Examiner	Art Unit		
	George R. Koch III	1734		
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address		
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be time within the statutory minimum of thirty (30) days will apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	ely filed will be considered timely. the mailing date of this communication. O (35 U.S.C. § 133).		
Status				
1) Responsive to communication(s) filed on 10 M. 2a) This action is FINAL. 2b) This 3) Since this application is in condition for allowar closed in accordance with the practice under E	action is non-final. nce except for formal matters, pro			
Disposition of Claims				
 4)	0 <u>0,106 and 111-113</u> is/are withdra d. 7 <u>9,80,90,91,97,103,104 and 110</u> i			
Application Papers				
9) The specification is objected to by the Examine 10) The drawing(s) filed on is/are: a) access Applicant may not request that any objection to the of Replacement drawing sheet(s) including the correction of the option	epted or b) objected to by the Edrawing(s) be held in abeyance. See ion is required if the drawing(s) is obj	e37 CFR 1.85(a). ected to. See 37 CFR 1.121(d).		
Priority under 35 U.S.C. § 119				
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.				
Attachment(s)				
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:			

Continuation of Disposition of Claims: Claims rejected are 1-8,18-33,35,36,39,41-43,45,49-52,64-66,69,71-73,75-78,81-86,88,89,92,94-96,98,99,101,102,105,107-109 and 114-118.

DETAILED ACTION

Election/Restrictions

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 2. Claims 1, 18, 30 and 31 are rejected under 35 U.S.C. 102(b) as being anticipated by Satoshi (the JPO database machine translation of JP 2001-356353)

Satoshi discloses a substrate bonding device for fabricating a liquid crystal display (LCD) panel, comprising a base frame (stand 2 and frame 3), a lower chamber unit (bottom chamber 10) mounted to the base frame, wherein the lower chamber unit defines a lower interior space and includes an upper surface, an upper chamber unit (top chamber 21) arranged over the lower chamber unit, wherein the upper chamber unit defines an upper interior space, includes a lower surface, and is joinable to the lower chamber unit (described in paragraph 0033), chamber moving means for raising and lowering the upper chamber unit (the movement is described in paragraphs 0015 and the means are items 29 and 30), an upper stage (item 28) within the upper interior space for securing a first substrate, a lower stage (item 9) within the lower interior space for securing a second substrate, alignment cameras (image recognition camera, and see paragraph 0037) provided to at least one of the upper and lower chamber units

capable of and for verifying an alignment state of a plurality alignment marks formed on the first and second substrates, and alignment means (shown in Figure 2) arranged at side portions of the lower chamber unit for adjusting an alignment between the first and second substrates. The location of the alignment means as worded in the claims (at side portions of the lower chamber unit) is considered broad enough read on Satoshi.

As to claim 18, Satoshi discloses that the chamber moving means includes a driving motor fixed to the base frame (item 40), a drive shaft (item 36) coupled to the drive motor, a connecting part connected to the driving shaft (item 37), a jack part (item 30) connected to the upper chamber unit and a connecting shaft (item 29) having one end connected to the upper chamber unit and the other end connected to receive a driving force from the driving shaft.

As to claim 30, Satoshi discloses sealing means (item 44) provided to at least one of the upper and lower surfaces for sealing an interior space surrounding the first and second substrates, wherein the sealed interior space is definable by joined ones of the upper and lower chamber units.

As to claim 31, Satoshi discloses that the sealing means includes an O-ring fitted along the upper surface (see paragraphs 0016-0017 and Figure 3).

As to claim 114, the alignment means are in the lower interior space.

3. Claims 98, 105, 107, and 109 are rejected under 35 U.S.C. 102(b) as being anticipated by Watanabe (US 2002/0043344).

Watanabe discloses a substrate bonding device for fabricating a LCD device, comprising an upper stage (item 59) for securing a first substrate of the LCD device, a lower stage (item 58) for securing a second substrate of the LCD device, first and second reels (items 54 and 55, and see paragraph 0040) arranged at opposite side portions of at least one of the upper and lower stages, a protection sheet (item 51) for covering a surface of at least one stage, wherein the protection sheet is scrollable by the first and second reels, and a rotating part (items 52 and 53) for rotating the first and second reels. Sheet/Belt 51 is considered to substantially cover the surface of the stage.

As to claim 105, Watanabe discloses that the first and second reels (items 54 and 55) are arranged elevationally lower than the surface of the lower stage (as shown in Figure 6).

As to claim 107, Watanabe discloses tension adjusting jigs (the combination of item 56 on one side, and 57 on the other) in the adjacent the first and second reels (items 54 and 55) which are capable of maintaining the protection sheet over the surface of the at least one stage to be substantially flat.

As to claim 108, the reels 54 and 55 allow the tension jigs to be rotatably mounted.

As to claim 109, Watanabe discloses the tension adjusting jigs 56 and 57 are movable in vertical directions (see paragraph 0040).

Application/Control Number: 10/661,472 Page 5

Art Unit: 1734

Claim Rejections - 35 USC § 103

4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

- 5. The factual inquiries set forth in *Graham* v. *John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:
 - 1. Determining the scope and contents of the prior art.
 - 2. Ascertaining the differences between the prior art and the claims at issue.
 - 3. Resolving the level of ordinary skill in the pertinent art.
 - 4. Considering objective evidence present in the application indicating obviousness or nonobviousness.
- 6. Claims 2-8 are rejected under 35 U.S.C. 103(a) as being unpatentable over Satoshi (the JPO database machine translation of JP 2001-356353) as applied to claim 1 above, and further in view of Miwa (US Patent 5,766,407)

Satoshi discloses all of the limitations of claim 1, and also discloses that the upper chamber unit includes an upper side exposed to an external environment and an inner rim portion analogous to an upper chamber plate attached to the lower surface at a periphery. However, Satoshi discloses one piece construction, and does not suggest the claimed two piece construction for these elements.

Miwa, though, discloses that multiple component bonding chambers are known (see, for exaple, Figure 3). One in the art would appreciate that multiple component chambers allow for smaller replacement parts which would reduce the downtime for

maintenance. Thererfore, it would have been obvious to one of ordinary skill in the art at the time of the invention to have used multiplece construction for chamber elements in order to enable smaller replacement parts, thus reducing maintenance downtime.

As to claim 3, the portion of the upper chamber unit analogous to the upper chamber plate is shaped as a rectangular rim defining the upper interior space with the upper stage is arranged.

As to claim 4, Satoshi discloses that the upper stage is fixed to the portion analogous to the upper base.

As to claim 5, Satoshi discloses all of the limitations of claim 1, and also discloses that the lower chamber unit includes an lower side exposed to an external environment and an inner rim portion analogous to an lower chamber plate attached to the lower surface at a periphery. However, Satoshi discloses one piece construction, and does not suggest the claimed two piece construction for these elements.

Miwa, though, discloses that multiple component bonding chambers are known (see, for exaple, Figure 3). One in the art would appreciate that multiple component chambers allow for smaller replacement parts which would reduce the downtime for maintenance. Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention to have used multiplece construction for chamber elements in order to enable smaller replacement parts, thus reducing maintenance downtime.

As to claim 6, the portion of the lower chamber unit analogous to the lower chamber plate is shaped as a rectangular rim defining the lower interior space with the lower stage is arranged.

As to claim 7, the lower chamber is considered capable of being moved as claimed.

As to claim 8, Satoshi discloses that the lower stage is fixed to the portion analogous to the lower base.

7. Claims 19-21 and 45, 49-51 are rejected under 35 U.S.C. 103(a) as being unpatentable over Satoshi (the JPO database machine translation of JP 2001-356353) as applied to claim 1 above, and further in view of Hiroki (US Patent 5,306,380)

Satoshi discloses all of the limitations of claim 1, but is silent as to a case surrounding the chamber units.

Hiroki discloses a case (Figure 1) surrounding the chamber units (items 3a, 3b, and 3c). One in the art would immediately recognize that the case provides a secure and clean environment for performing the processes. Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention to have utilized such a case in order to provide a clean and secure environment for the chambers.

As to claim 20, Hiroki discloses one inlet for loading the substrates (item 6).

As to claim 21, Hiroki discloses one "second" inlet for loading the substrates (item 6).

As to claim 45, Satoshi discloses the base frame, lower chamber unit, upper chamber unit, chamber moving means, upper stage, lower stage and sealing means

(and see rejections of claims 1 and 30 above). Satoshi does not suggest a case surrounding the chamber units.

Hiroki discloses a case (Figure 1) surrounding the chamber units (items 3a, 3b, and 3c). One in the art would immediately recognize that the case provides a secure and clean environment for performing the processes. Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention to have utilized such a case in order to provide a clean and secure environment for the chambers.

As to claim 49, Hiroki discloses one inlet for loading the substrates (item 6).

As to claim 50, Hiroki discloses one "second" inlet for unloading the substrates (item 6).

As to claim 51, this inlet is substantially opposite of the other inlet.

8. Claims 22-29, 52-55, 58-61, 75-78, 81-84, are rejected under 35 U.S.C. 103(a) as being unpatentable over Satoshi (the JPO database machine translation of JP 2001-356353) as applied to claim 1 above, or Satoshi and Hiroki as applied to claim 45 above, and further in view of Nakagomi (US Patent 5,742,173).

Satoshi discloses all of the limitations of claim 1, and Satoshi and Hiroki all of the limitations of claim 45, but do not suggest spraying means, blowing means, and flow tubes as claimed in claim 22 and 52.

Nakagomi discloses spraying means (i.e., the openings, see Figure 23), blowing means (the source) and connecting to gas supply sources (implying connecting tubes), in conjunction with ionizer equipment (see columns 16-17). One in the art would

immediately appreciate that such equipment improves the cleanliness of the chamber. Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention to have included spraying means, blowing means, and flow tubes in order to ensure that the chamber is maintained at a sufficient cleanliness.

As to claim 75, Satoshi as applied to claim 1 above discloses a bonding device for fabricating LCD devices comprising the base frame, the lower chamber unit, the upper chamber unit, the chamber moving means, the upper stage, and lower stage as claimed (see the rejection of claim 1 above). Satoshi does not suggest spraying means, blowing means, and flow tubes as claimed in claim 75.

Nakagomi discloses spraying means (i.e., the openings, see Figure 23), blowing means (the source) and connecting to gas supply sources (implying connecting tubes), in conjunction with ionizer equipment (see columns 16-17). One in the art would immediately appreciate that such equipment improves the cleanliness of the chamber. Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention to have included spraying means, blowing means, and flow tubes in order to ensure that the chamber is maintained at a sufficient cleanliness.

As to claims 23, 53, 76, Nakagomi as incorporated discloses a plurality of opens as claimed (see Figure 23, items 222a).

As to claims 24, 54, 77, Nakagomi as incorporated discloses the ionizers as claimed (column 16).

As to claims 25, 55, 78, Nakagomi as incorporated discloses needles (item 271), i.e., ion generating tips, in the claimed locations.

As to claims 26, 58, 81, Nakagomi as incorporated discloses that the ionizers are arranged proximate the units as claimed (see figure 23).

As to claims 27, 59, 82, Nakagomi as incorporated discloses the structure of the ionizers as in Figure 23 results in the ionizer being a flow tube arranged as side portions of the unit, with gas flowing out of the holes (item 272) and an ion generating tip proximate each of the holes (item 271)

As to claims 28, 60, 83, Nakagomi as incorporated suggests nitrogen gas (column 16, line54). As to claims 29, 61, 84, the structures of Nakagomi are capable of removing foreign as claimed.

9. Claims 32, 33, 35, 39, 41-44, 62, 63, 65, 66, 69, 71-73, 85, 86, 88, 89, 92, 94-96, 99-102, 105-109 and 114-118 are rejected under 35 U.S.C. 103(a) as being unpatentable over Satoshi (the JPO database machine translation of JP 2001-356353) as applied to claim 1 above, or Satoshi and Hiroki as applied to claim 45 or 75 above, and further in view of Watanabe (2002/0043344).

Satoshi discloses all of the limitations of claims 1, and Satoshi and Hiroki make obvious the limitations of claim 45, and Satoshi and Nakagomi make obvious the limitations of claim 75, but does not disclose the first and second reels, protection sheet, and rotating part of claim 32, 62, 85.

As to claims 32, 62, 85, Watanabe discloses in the context of a a substrate bonding device for fabricating a LCD device, comprising an upper stage and lower stages for securing a LCD substrates, the concepts of the first and second reels (items 54 and 55, and see paragraph 0040) arranged at opposite side portions of at least one of the upper and lower stages, a protection sheet (item 51) for covering a surface of at least one stage, wherein the protection sheet is scrollable by the first and second reels, and a rotating part (items 52 and 53) for rotating the first and second reels. Watanabe discloses that the sheets enable transport of the substrates, and one would recognize that the sheets also provide protection from the plates. Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention to have utilized such sheets, reels and rotating parts in order to transport the substrates.

As to claim 98, Satoshi as applied to claim 1 above discloses a bonding device comprising an upper stage and lower stage as claimed. However, Satoshi does not suggest the reels, the protection sheet, and the rotating part. Watanabe discloses in the context of a a substrate bonding device for fabricating a LCD device, comprising an upper stage and lower stages for securing a LCD substrates, the concepts of the first and second reels (items 54 and 55, and see paragraph 0040) arranged at opposite side portions of at least one of the upper and lower stages, a protection sheet (item 51) for covering a surface of at least one stage, wherein the protection sheet is scrollable by the first and second reels, and a rotating part (items 52 and 53) for rotating the first and second reels. Watanabe discloses that the sheets enable transport of the substrates,

and one would recognize that the sheets also provide protection from the plates.

Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention to have utilized such sheets, reels and rotating parts in order to transport the substrates.

As to claims 33, 63, 86, and 99, Satoshi discloses that the chuck is a combined pressure and electrostatic chuck (see paragraph 0020).

As to claims 35, 65, 88, and 101, Satoshi discloses a plurality of holes for transmitting a suction force.

As to claim 36, 66, 89, and 102, the electrostatic charge provided by the chuck of Satoshi, when combined with the sheet of Watanabe, is capable of being transmitted by the protection sheet.

As to claims 39, 69, 92, and 105 Watanabe discloses that the first and second reels (items 54 and 55) are arranged elevationally lower than the surface of the lower stage (as shown in Figure 6).

As to claims 41, 71, 94, and 107, Watanabe discloses tension adjusting jigs (the combination of item 56 on one side, and 57 on the other) in the adjacent the first and second reels (items 54 and 55) which are capable of maintaining the protection sheet over the surface of the at least one stage to be substantially flat.

As to claims 42 72, 95, and 108, the reels 54 and 55 allow the tension jigs to be rotatably mounted.

As to claim 43, 73, 96, and 109, Watanabe discloses the tension adjusting jigs 56 and 57 are movable in vertical directions (see paragraph 0040).

As to claims 115, 116, 117, and 118, the combination of Satoshi and Watanabe as above would result in the reels being located in the lower interior space, since the reels of Watanabe are in a plane with the lower holding plate.

Allowable Subject Matter

- 10. Claims 9-15 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.
- 11. The following is a statement of reasons for the indication of allowable subject matter: The prior art of record does not suggest the plurality of cams, plurality of shafts, and plurality of motors of claim 9 in the context of the limitations of claim 5.
- 12. Claims 16-17 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.
- 13. The following is a statement of reasons for the indication of allowable subject matter: The prior art of record does not suggest the interlocking means of claim 16 in the context of the limitations of claim 1.
- 14. Claims 46-48 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Application/Control Number: 10/661,472 Page 14

Art Unit: 1734

15. The following is a statement of reasons for the indication of allowable subject matter: The prior art of record does not suggest the transparent materials in the context of claims 45.

- 16. Claims 56-57 and 79-80are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.
- 17. The following is a statement of reasons for the indication of allowable subject matter: The prior art of record does not suggest the outwardly sloped, curved regions in the chamber unit.
- 18. Claims 37, 38, 67, 68, 90, 91, 103, 104 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.
- 19. The following is a statement of reasons for the indication of allowable subject matter: The prior art of record does not suggest the inclusion of holes in the protection sheet or corresponding those holes with the chuck.
- 20. Claims 44, 74, 97, 110 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.
- 21. The following is a statement of reasons for the indication of allowable subject matter: The prior art of record does not suggest that the adjusting jigs are movable in lateral directions.

Application/Control Number: 10/661,472 Page 15

Art Unit: 1734

Response to Arguments

22. Applicant's arguments filed 3/10/2005 have been fully considered but they are not persuasive.

- 23. With regard to the 102(b) rejections of claims 1, 18, 30 and 31 under Satoshi, the location of the alignment means as worded in the claims (at side portions of the lower chamber unit) is considered broad enough read on Satoshi. "Side portions of the lower chamber unit" is interpreted as comprising the area including the side portion of the lower substrate.
- 24. With regard to the 102(b) rejections of claims 98, 105, 107-109 under Watanabe, the sheet/belt 51 is considered to substantially cover the surface of the stage.
- 25. With regard to claim 108, elements 52/53 rotate and elements 554 to 56 or 55 to 57 move vertically. This meets the limitations of the claim.
- 26. With regard to claim 109, the movement of the lift guide members 56 and 57 meets the "movable" in vertical directions" limitation.
- 27. With regard to the rejection of claims 19-21 and 45-51 in view of Satoshi and Hiroki, applicant argues that the chamber is not a case. However, applicant admits that the chamber is hermetically opened and close. Therefore, Hiroki is considered to meet the claim language.
- 28. In response to applicant's argument that the references fail to show certain features of applicant's invention, it is noted that the features upon which applicant relies (i.e., i.e., the size of the chamber case,) are not recited in the rejected claim(s).

Although the claims are interpreted in light of the specification, limitations from the specification are not read into the claims. See *In re Van Geuns*, 988 F.2d 1181, 26 USPQ2d 1057 (Fed. Cir. 1993).

Page 16

- 29. In response to applicant's argument that to claims 36, 66, 89, and 102, a recitation of the intended use of the claimed invention must result in a structural difference between the claimed invention and the prior art in order to patentably distinguish the claimed invention from the prior art. If the prior art structure is capable of performing the intended use, then it meets the claim. In a claim drawn to a process of making, the intended use must result in a manipulative difference as compared to the prior art. See *In re Casey*, 370 F.2d 576, 152 USPQ 235 (CCPA 1967) and *In re Otto*, 312 F.2d 937, 939, 136 USPQ 458, 459 (CCPA 1963). In this case, Satoshi discloses the chuck, Watanabe discloses the sheet, and the structures are considered capable of performing as claimed. This is not an "Official Notice" statement.
- 30. The rejection of claims 42, 43, 72, 73, 95, 96, 98, 105, 107-109 over Satoshi and Watanabe are maintained for the reasons listed above in the 102(b) rejections of claims 98, 105, 107-109.
- 31. In response to applicant's argument that there is no suggestion to combine the references, the examiner recognizes that obviousness can only be established by combining or modifying the teachings of the prior art to produce the claimed invention where there is some teaching, suggestion, or motivation to do so found either in the references themselves or in the knowledge generally available to one of ordinary skill in the art. See *In re Fine*, 837 F.2d 1071, 5 USPQ2d 1596 (Fed. Cir. 1988)and *In re*

Jones, 958 F.2d 347, 21 USPQ2d 1941 (Fed. Cir. 1992). In this case, the motivations are clear generally available to one of ordinary skill in the art.

Page 17

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to George R. Koch III whose telephone number is (571) 272-1230 (TDD only). If the applicant cannot make a direct TDD-to-TDD call, the applicant can communicate by calling the Federal Relay Service at 1-866-377-8642 and giving the operator the above TDD number. The examiner can normally be reached on M-Th 10-7.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Christopher Fiorilla can be reached on (571) 272-1187. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

George R. Koch III

Application/Control Number: 10/661,472

Art Unit: 1734

Page 18

Patent Examiner Art Unit 1734

GRK 6/27/2005